

TRANSMISSION VERIFICATION REPORT

TIME : 08/13/2010 11:42
NAME :
FAX :
TEL :
SER.# : F9N212739

DATE, TIME	08/13 11:41
FAX NO./NAME	15143391105
DURATION	00:00:18
PAGE(S)	01
RESULT	OK
MODE	STANDARD
	ECM

Si vous avez des questions SVP n'hésiter pas de nous contacter

Merci beaucoup !

Christina Antoniou

Magna Inoxydable et Aluminium

ventes internes aérospatiale/inside sales aerospace

5775 rue Kieran

St Laurent QC, H4S 0A3

Tel: (514) 339-1211 Fax: (514)339-1105

www.magnastainless.com

From: Chantal Lavoie [mailto:clavoie@dartaero.com]

Sent: August 10, 2010 1:29 PM

To: Christina Antoniou

Subject: QUOTE

Hi Christina,

Please advise price & delivery on material.

17-4 bar 1.250" x 2" x 24 ft OFFRE 1 1/2 " X 2" X 12' LG \$ 986.12 EACH LENGTH 1 1/2 SEMAINE DE LIVRAISON

303 bar 1" x 1" x 12 ft 1 BAR \$ 259.00/PC 1 1/2 SEMAINE DE LIVRAISON

~~303 bar 1.5" x 3" x 12 ft 1 BAR \$ 1209.00/PC 1 1/2 SEMAINE DE LIVRAISON 1 1/2 SEMAINE DE LIVRAISON~~

6061t6 round bar 1" x 12ft 1 BAR \$ 85.00/PC 1 1/2 SEMAINE DE LIVRAISON

Thanks

Chantal

Chantal Lavoie

From: Christina Antoniou [cantoniou@magnastainless.com]
Sent: August 12, 2010 11:30 AM
To: Chantal Lavoie
Subject: RE: QUOTE

Hello Chantal,

303 Flat 1 x 3 x 150" lg approx
1 bar \$ 966.00/pc
1 ½ weeks delivery

Thank you

Christina Antoniou

Magna Inoxydable et Aluminium

ventes internes aérospatiale/inside sales aerospace

5775 rue Kieran

St Laurent QC, H4S 0A3

Tel: (514) 339-1211 Fax: (514)339-1105

www.magnastainless.com

From: Chantal Lavoie [mailto:clavoie@dartaero.com]
Sent: August 11, 2010 1:09 PM
To: Christina Antoniou
Subject: RE: QUOTE

Hi Christina,
Please advise price & delivery on material.
303 bar 1" x 3" x 12ft
Thanks
Chantal

From: Christina Antoniou [mailto:cantoniou@magnastainless.com]
Sent: August 11, 2010 10:49 AM
To: Chantal Lavoie
Subject: RE: QUOTE

Bonjour Chantal,

Voici les prix ci dessous

Pour le item 1 le 1 ½ x 2 est la seule dimension disponible a la moment, déjà vérifier avec 3 fournisseurs

8/12/10

17-4 Bar 1.250" x 2" x 24'

D4148-3

1" x 3.00

303 SS.

BAR

12

8

4

4

34

30

6

6

6

0

0

60

12

192

0

24

32

32

80

24

24

120

120

200

40

10

30

24

10

12

12

12

24

24

80

40

12

6

12

24

12

10

6

20

30

40

12

12 ft

12 ft

12 ft

M174B2.000X01.500	2.412105263
M174PH-H900B3.937X4.750	15.00431263
M174PH-H900R1.000	72.96584177
M174PH-H900R1.375	75.65768421
M2024T3S.040	356.4229895
M2650-6	29.84286747
M303B1.000X1.000	2.895667318
M303B1.000X2.000	1.83159
M303B1.500X03.000 1" x 3"	5.173647368
M303B2.000X1.750	4.475354211
M303R0.500	11.65344901
M303R0.750	81.95921053
M304B0.500X2.500	417.8467105
M304EX0.75-16F	297.1794868
M304R1.00	8.210526316
M304R0.750	10.51168421
M304S12GA	70.28030015
M304S26GA	6.301324331
M304TR0.500W.035	83.69519575
M304TR0.750W.065	1.212994737
M304TR1.000W.049	3.202610316
M304TS0.500W.049	130.6874427
M304TS0.750W.049	315.3345074
M304TS0.750W.065	132.0615288
M4130NB0.500X03.000	41.78473684
M4130NT0.500W.049	5.722631579
M4130NT0.750W.049	37.19178947
M6061T6B0.187X04.000	7.874052632
M6061T6B0.250X02.500	3.837894737
M6061T6B0.250X06.000	11.46773684
M6061T6B0.375X00.750	3.873942105
M6061T6B0.500X05.000	29.14684211
M6061T6B0.500X06.000	21.61113684
M6061T6B0.750X00.250	5.619157895
M6061T6B0.750X00.750	1.765030004
M6061T6B00750X00.125	15.80833158
M6061T6B1.000X02.000	11.75260526
M6061T6B1.000X04.000	33.89348421
M6061T6B1.000X06.000	2.325987994
M6061T6B1.000X12.000	13.89175789
M6061T6B1.000X15.000	29.85052632
M6061T6B1.500X02.000	1.078557895
M6061T6B1.500X04.000	3.476266098
M6061T6B2.000X04.500	2.495788947
M6061T6B30000X01.500	1.159783811
M6061T6R0.625	43.44222632
M6061T6R0.750	7.119031579
M6061T6R1.000	1.183663158

0 74

0 993.555733

0 0

0 29.09473684

0 204.1

0 144

0 129.490217

0 63.5

0 30.841584

0 498.4837258

0 367.9466048

0 326.764885

0 24

0 67.333

0 139.1667

0 73.42

0 30.4134

0 42

0 18.1471

0 49.8636

0 43.2814

0 16.5

0 36.5883

0 99.3017

0 50.422

0 77.1

0 12

0 16

0 46.3

0 15.2863

0 11.2643

0 19.62421

0 23.1789

0 77.5

0 12.11684211

0 3.68

8

7

6

5

SPECIFICATION

D

PURCHASE MATERIAL: AISI 303 SS BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)



SPECIFICATION: ASTM A582

PART NUMBER: M303B | T.TTT | X | WW.WWW |
| THICK | | WIDTH |

WHERE "T.TTT" = THICKNESS IN INCHES
AND "WW.WWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M303B0.500X03.000

C

B

A

8

7

6

5



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO12403

Purchase Order Date 8/13/10

PO Print Date 8/13/10

Page Number 1 of 1

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name

Vendor Phone

800 363 6646

Vendor Fax

514 339 1105

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED
8/13/10

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M303B1.000X1.000	303 BAR 1" X 1"	8/26/10 Yes	12.00 f	Yours ppd	\$21.5800	\$258.96
Special Inst: MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE							
2	M303B1.000X03.000	303 BAR 1" X 3"	8/26/10 No	12.00 f	Yours ppd	\$80.5000	\$966.00
Special Inst: AS ABOVE							
PO Total:							\$1,224.96

**MATERIAL CERTIFICATION
REQ'D UPON DELIVERY**

Change Nbr: 1

Change Date: 8/13/10

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable



Montanstahl
CH - 6855 Stabio

PT111

**DATA SHEET FOR ACD STAINLESS STEEL FLAT BARS IN
GRADES 303, 304 / 304L AND 316 / 316L**

Applicable standards		Rev.	Grade		
			AISI - 303 UNS - S30300	AISI - 304/304L UNS - S30400 UNS - S30400	AISI - 316/316L UNS - S31600 UNS - S31603
ASTM	A320/A320M	2004	X		X
	A484/A484M	2005	X	X	X
	A582/A582M	2005	X		
	A276	2008a		X	X
	A370	2005	X	X	X
	A479/A479M	2006a		X	X
AMS	5640U (type 1)	2007	X		
	2241P	2005	X		
	5653F	2002			X
	5648K	2002			X
	S 7720 A	1997			X
	5639H (type 1)	2002		X	
	5647H	2002		X	
	2248E	1993		X	X
	QQ S 763A	2003		X	X
ASME	SA479	2007		X	X

Chemical values

Grade	C ⁽¹⁾	Si ⁽¹⁾	Mn	Ni	Cr	Mo	S ⁽¹⁾	P ⁽¹⁾	N ⁽¹⁾	Cu ⁽¹⁾	Co ⁽¹⁾	Zr ⁽¹⁾
303	0,15	1	2 ⁽¹⁾	8-10	17-19	0,6 ⁽¹⁾	0,35 ⁽²⁾	0,15	0,1	0,75	0,1	0,60
304/304L	0,03	0,75	2 ⁽¹⁾	8-10,5	18-20	0,5 ⁽¹⁾	0,03	0,04	0,1	0,50	0,1	
316/316L	0,03	0,75	1-2	10-14	16-18	2-3	0,03	0,04	0,1	0,75	0,1	

⁽¹⁾ Maximum values

⁽²⁾ For thicknesses $\leq 0.25"$: $S_{min} = 0,20$

Mechanical values^(A) ^(B)

Grade	Thickness	TS ⁽¹⁾ [KSI]	YS ⁽¹⁾ [KSI]	EL ⁽¹⁾ [%]	RA ⁽¹⁾ [%]	HB ⁽¹⁾
303	Up to 0.5"	75	30	30	40	140-241
	Over 0.5"	75	30	35	50	223
304/304L	Up to 0.5"	90	45	30	40	140-223
	Over 0.5"	75	30	40	50	140-223
316/316L	Up to 0.5"	90	45	30	40	140-223
	Over 0.5"	75	30	30	40	140-223

⁽¹⁾ Maximum values; hardness is measured in centerline of width after removal of specific surface layer (see ASTM A320)

⁽²⁾ Minimum values

^(A) Cold drawn flat bars are not intentionally strain hardened but drawn to specific dimensional tolerances.

^(B) Cold drawn flat bars have a higher magnetic permeability than HRAP flat bars.

- Solution annealed at 1050°C and water quenched prior to cold drawing.
- Intergranular corrosion test according to ASTM A262 practices A, C & E (where applicable)
- Micro and macro structure: OK
- Grain size per ASTM E112: 5-7
- No welding or weld repairs
- Material free of contamination from mercury or metals liquid at ambient temperature
- Material DFARS compliant

GO 03/02/2010 SPECIFICA DI
VENDITA

\\nas1\data\gestione\specifiche\vendita\ven_piatti_tafilati_inox - usa_pt111.doc

Inc 08-31-10

00817PR009-2 MAGNA STAINLESS PO: P011112 Part #:

1.00PC 131.00LB

Handwritten signature
10/02/07

B23768 - PO# P00504AM005

MONTANSTAHL

special profiles in steel

Tel: +41 (91) 6416-800
Fax: +41 (91) 6416-804
email: info@montanstahl.com

004413

mill test certificate

product
Flat - ACD 1 x 3 Inch 11-13' ✓

mill test certificate according to

Customer specs

size standards
PT 111

grade
303 ✓

grade standards
ASTM A582/A582M

bundles
823762-823771

order n°
Consignment Stock #4
(29894, 29739)

net weight
5057 lbs

execution
ACD

marking
EAF/AOD

heat	C	Si	Mn	P	S	Ni	Cr	Mo	Ti	Al	N	Cu	Pb	V	Co
E212478 ✓	0.059	0.61	1.70	0.032	0.269	8.66	17.71	0.35			0.022	0.63			0.10
tensile strength		yield strength		elongation		area reduction		hardness		impact test					
Rm	Rp 0.2%		Rp 1%		A5	Z		HB		KV					
68 ksi	59 ksi				46 %	54 %		167							

- We hereby confirm that the material certified in this document is conform to enclosed data sheet

- Material is produced in compliance with ROHS (2002/95/EC)
- Material free from Mercury and radioactive contamination

- Country of melt: Spain
- Country of manufacturing origin: Switzerland



and
10/07/07

Trace Mark



date

05.11.2009

The works' inspector

A. Luyten

Inc 08-31-10

S00817PR009-2 MAGNA STAINLESS PO: P011112 Part #:
1.00PC 131.00LB

P011112-

C013464



24542 Rodacciai S.p.A. - Via Leopardo 1 - 0446
Tel. +39071678111 - Fax +39071678312
Internet: www.rodacciai.com - e-mail: info@rodacciai.com



Segue certificato di collaudo
Inspection Certificate's continuance

N. 039976 Date 15/07/2010

NOTE - Notes

100% crack tested by eddy current method: OK
Heat treatment = 1940°F quenched in water
The raw material was melted in Spain.
This product was manufactured in Italy.
Material according to our specification Nr. 047

We certify hereby, that the above mentioned products are consistent with the order prescriptions. This certificate was generated by data system acc. to EN 10204, it is not necessary to be signed for validity.



233 42 Eosmo Arch. R.G. - Via Leopardo 1 - 07046
Tel. +39074781111 - Fax +39074782312
Internet: www.rodacciai.com - e-mail: info@rodacciai.com



CERTIFICATO DI COLLAUDO Inspection Certif. N. 039976 Date 15/07/2010

Secondo According to EN 10204:2004 3.1

DESTINATARIO - Cargo-Receiver

CLIENTE - Customer

ORDINE - Order
N. 450301 Date 8/01/2010 **D.d.T.** - Delivery note
N. 09362/13 Date 27/07/2010

Weight lb 5.229,00
Tolerance + 0,000 - 0,102 mm **Bars Length** 3.660 - 3.960

QUALITA' - Grade
STANDARD Type AISI 303 ✓ **WNr UNS S 30300**

Mark RODACCIAI 303 PLUS

COLATA - Heat 989186 ✓

PROFILO - Shape SQUARE

DIMENSIONE - Size 1" ✓

ESECUZIONE - Form of delivery COLD DRAWN

ANALISI CHIMICA DI COLATA - Cast analysis % by mass

C	Mn	Si	S	P	Cr	Ni	Mo	Cu	Co
0,046	1,720	0,430	0,260	0,034	18,500	8,600	0,460	0,470	0,170

N
0,0380

CARATTERISTICHE MECCANICHE ALLO STATO DI FORNITURA

Mechanical properties of delivered material

		Tested	Max
Tensile Strength	Rm PSI	91924,0	
Yield Strength	Rp(0,2) PSI	54516,0	
Elongation	A 4 (%)	48,0	
Hardness	HBW	187,0	241
Reduction of area	Z (%)	58,0	

NOTE - Notes

According to : AMS 5640U type 1 2007 ASTM A 320/A320M-10
ASTM A 582/A582M-05 ASTM A751-08
ASTM A484/A 484M 10
Micro and Macro structure : Satisfactory
The material was produced by EP + A.O.D.
No Weld Repair - Free of Mercury contamination

Pag. 1 / Segue

Inc 08-31-10

PO: P011112 Part #:

P01112-989186

anf
10/09/07

C013448



Magna Stainless

5775 Kieran St, Saint-Laurent, Quebec H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

PACKING LIST



Page 1 of 1

I031654

SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

SPECIAL INSTRUCTIONS

****INCOMING ***

Contact: CHANTAL

Ship Terms: PREPAID



Currency		Sales Person	Customer Phone	Customer Fax	Customer PO		
CANADIAN DOLLARS		DAVE MC VETY	(613) 632-5200	(613) 632-1053	12403		
Sales Order	Terms		Ship Via		Date Ordered	Date Required	Date Shipped
W033912	NET 30 DAYS		NIR:R-557065-1		08/16/10	08/24/10	09/01/10

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
1		PC	STAINLESS - LB 303 FLAT 1" X 1" X 12' LG 42 LB / 1 PC	L042235	989186	1
1		PC	303 FLAT 1" X 3" X 12' LG 131 LB / 1 PC	L042236	E212478	1
MATERIAL IS PER ASTM A582 MILL TEST + CDEC REQUIS AVEC LIVRAISON						
<i>cmh 10/09/07</i> <i>B 10/10/10</i>						
Bundles: 1				Approx	Weight:	173 LB

Received by: _____ Date: _____ Signature: _____

Purchase Order Receipt Listing

Page 1 of 1

Wednesday, September 01, 2010 2:36:01 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO12403 Receipt Dates from 9/1/2010 to 9/1/2010 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name			VC-MAG002	Magna Stainless							
PO12403	1		M303B1.000X1.000 f		8/26/2010	9/1/2010	12.0000	\$21.58	0.0000	0	\$258.96
CAD	No		303 BAR 1" X 1" f 115555		12.0000	DESJ02		\$258.96	0.0000	0	
	2		M303B1.000X03.000 f		8/26/2010	9/1/2010	12.0000	\$80.50	0.0000	0	\$966.00
	No		303 BAR 1" X 3' f 115555		12.0000	DESJ02		\$966.00	0.0000	0	
Total Received Quantity:											24.0000
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$1,224.96
Total Balance Due Quantity:											0.0000

Receiving Report

Date: 10/9/01

Batch No: 21/5555

Supplier: MAGNA

Dart P/O: 12403

Yes

No

Yes

No

N/A

Yes

No

Yes

~~_____~~

No

N/A

Cash

Cr

Yes

✓

No

N/A

172 10/09/07

N/A

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12

Production/Admin: *10/9/11*

Date 10/7/02

Received/Costing

Initial _____

Location _____